

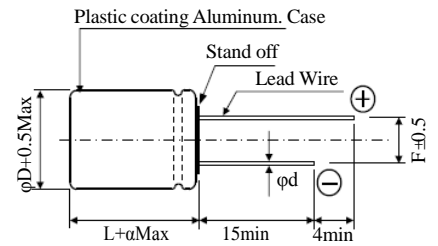
RM series Hybrid (25v~100v)

It's a hybrid series for Automotive Application.
Lead free-flow is supported.

◇ Specifications

Items	Characteristics	
Operating Temp. Range	-55°C ~ +105°C	
Capacitance Range	10~1000 μF	
Capacitance Tolerance	M : ±20%	
Rated Voltage Range	25V ~100V DC	
Dissipation Factor (at 120Hz,20°C)	Not to exceed the value specified	
Leakage Current	Not to exceed the value specified	
ESR (100K~300KHz)	Not to exceed the value specified	
Endurance 105°C · 2000h , at rated voltage	Capacitance	Within ±20% of the value before test
	Leakage current	Not to exceed the value specified
	ESR	Not to exceed 150% of the value specified
	Dissipation Factor	Not to exceed 150% of the value specified
Moisture Resistance Stored at 60°C · RH90~ 95% · 2000h	Capacitance	Within ±20% of the value before test
	Leakage Current	Not to exceed the value specified
	ESR	Not to exceed 150% of the value specified
	Dissipation Factor	Not to exceed 150% of the value specified

◇ Dimensions



Unit: mm

φ D×L	ΦD +0.5max.	α	F ±0.5	Φd ±0.05
6.3×5	6.3	1.0	2.5	0.5
6.3×8	6.3	1.0	2.5	0.6
8×8	8.0	1.0	3.5	0.6
8×11.5	8.0	1.0	3.5	0.6
10×12.5	10.0	1.0	5.0	0.6
10×16	10.0	1.5	5.0	0.6

◇ Capacitance List

SIZE W.V(S.V)	6.3×5	6.3×8	8×8	8×11.5	10×12.5	10×16
25 (27.5)	47~82μF	82~120μF	100~220μF	180~330μF	220~470μF	470~820μF
35 (41)	39~68μF	68~100μF	56~180μF	100~270μF	100~470μF	470~680μF
50 (57.5)		10~47μF	47~82μF	56~100μF	100~180μF	180~270μF
63 (73)		10~27μF	27~47μF	33~56μF	56~100μF	100~150μF
80 (92)			18~33μF	27~47μF	39~82μF	82~120μF
100 (115)			10~27μF	22~39μF	33~68μF	68~100μF

✧ Characteristics List

W.V. (V)	Capacitance (μ F)	L.C. (μ A, 2min)	$\text{tg } \delta$ (120Hz, 20°C)	ESR (m Ω , 100kHz)	Rated Ripple Current(mA, r.m.s)	Size Φ D \times L (mm)	Part Number
25	47	300	0.12	45	1600	6.3 \times 5	RM470M025E050□□
	47	300	0.12	40	2000	6.3 \times 8	RM470M025E080□□
	100	300	0.12	40	2000	6.3 \times 8	RM101M025E080□□
	100	300	0.12	30	2900	8 \times 8	RM101M025F080□□
	220	300	0.12	25	3300	8 \times 11.5	RM221M025F115□□
	330	300	0.12	25	3800	10 \times 12.5	RM331M025G125□□
	680	300	0.12	20	4200	10 \times 16	RM681M025G160□□
35	22	300	0.12	45	1600	6.3 \times 5	RM220M035E050□□
	56	300	0.12	45	1600	6.3 \times 5	RM560M035E050□□
	100	300	0.12	40	2000	6.3 \times 8	RM101M035E080□□
	100	300	0.12	30	2900	8 \times 8	RM101M035F080□□
	100	300	0.12	25	3300	8 \times 11.5	RM101M035F115□□
	220	300	0.12	25	3800	10 \times 12.5	RM221M035G125□□
	330	300	0.12	25	3800	10 \times 12.5	RM331M035G125□□
	560	300	0.12	20	4200	10 \times 16	RM561M035G160□□
50	10	300	0.12	40	2000	6.3 \times 8	RM100M050E080□□
	47	300	0.12	30	2900	8 \times 8	RM470M050F080□□
	100	300	0.12	25	3300	8 \times 11.5	RM101M050F115□□
	100	300	0.12	25	3800	10 \times 12.5	RM101M050G125□□
	220	300	0.12	20	4200	10 \times 12.5	RM221M050G160□□
63	10	300	0.12	40	2000	6.3 \times 8	RM100M063E080□□
	47	300	0.12	30	2900	8 \times 8	RM470M063F080□□
	56	300	0.12	25	3300	8 \times 11.5	RM560M063F115□□
	82	300	0.12	25	3800	10 \times 12.5	RM820M063G125□□
	120	300	0.12	20	4200	10 \times 16	RM121M063G160□□
80	22	300	0.12	30	2900	8 \times 8	RM220M080F080□□
	47	300	0.12	25	3300	8 \times 11.5	RM470M080F115□□
	82	300	0.12	25	3800	10 \times 12.5	RM820M080G125□□
	100	300	0.12	20	4200	10 \times 16	RM101M080G160□□
100	10	300	0.12	30	2900	8 \times 8	RM100M100F080□□
	22	300	0.12	25	3300	8 \times 11.5	RM220M100F115□□
	56	300	0.12	25	3800	10 \times 12.5	RM560M100G125□□
	82	300	0.12	20	4200	10 \times 16	RM820M100G160□□

✧ Frequency Coefficient for Ripple Current

Frequency	120Hz \leq freq.<1KHz	1KHz \leq freq.<10KHz	10KHz \leq freq.<100KHz	100KHz \leq freq.<300KHz
Coefficient	0.05	0.3	0.7	1

1. POLYCAP Explanation of Part Number (Radial Type).

Example: **R** **L** **8** **2** **1** **M** **2** **R** **5** **E** **0** **8** **0** **C** **A**

Series name Rated capacitance Capacitance tolerance Rated voltage Case diameter Case length Taping or forming of terminal code

RA Series

RH Series

RV Series

RE Series

RL Series

RM Series

RS Series

RN Series

RF Series

RQ Series

RU Series

VS Series

VN Series

VA Series

Rated Cap.(μF)	Code
4.7	4R7
10	100
33	330
100	101
820	821
1000	102
2700	272

Tol.%	Code
±20	M
±10	H
±5	Z

Rated Volt.(v)	Code
2.5	2R5
6.3	6R3
10	010
16	016
25	025
35	035
50	050
63	063
100	100
125	125
160	160
200	200

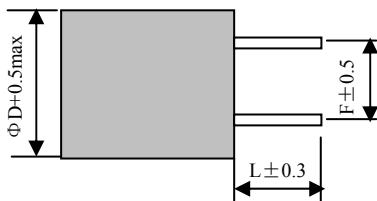
Dia (mm)	Code
4	B
5/5.5	C
6.3	E
8	F
10	G

Len. (mm)	Code
5	050
6	060
7	070
8	080
11	110
11.5	115
12.5	125
14	140
16	160
20	200

Taping or lead terminal wire process code.
None suffix for regular length lead type products

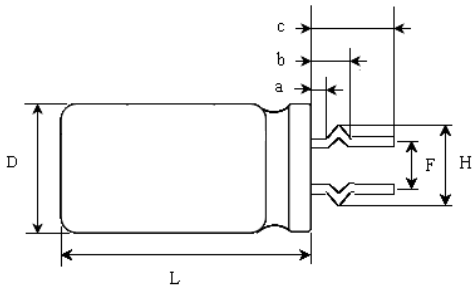
2. POLYCAP Radial lead terminal process

1) Specifications for lead terminal cutting



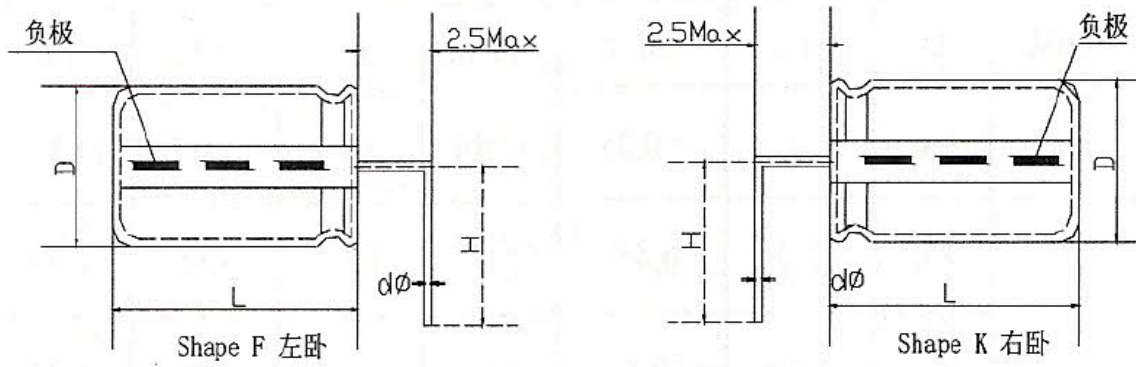
Shape A (lead cutting)

Lead terminal cutting code	Cutting size(L/mm)	Applicable case size(D/mm)
CI	2.2	
CA	2.5	
CJ	2.8	
CB	3.0	Φ4
CC	3.2	Φ5
CD	3.3	Φ5.5
CE	3.5	Φ6.3
CF	4.0	Φ8
CG	5.0	Φ10
CH	6.0	



Shape B (lead cutting and crimping)

lead cutting and crimping code	$H \pm 0.5$	$a \pm 0.5$	$b \pm 0.5$	$c \pm 0.5$
BA	4.5	1.0	4.0	7.5
BB	4.5	1.0	4.0	8.0
BC	4.5	1.0	4.0	9.5



Shape F、K (lead cutting and bending)

Shape F 左卧 code	Shape K 右卧 code	$H \pm 0.5$
FA	KA	6.3
FB	KB	8.0
FC	KC	10.0

2) POLYCAP Specifications for Taping

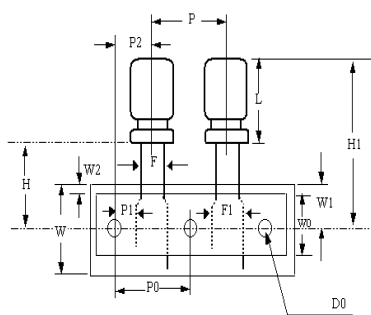


Fig-1(Φ5~Φ8)

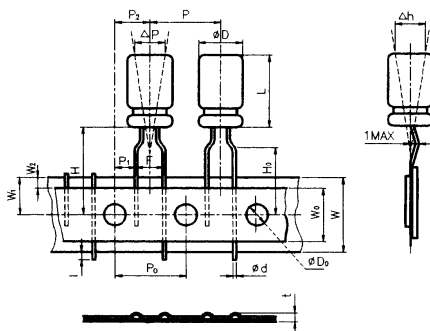


Fig-2(Φ5~Φ8)

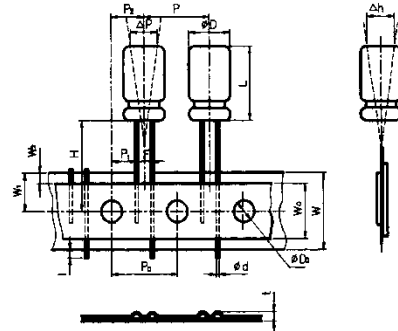


Fig-3(Φ10)

Code	D	L	d	P	P0	P1	F	W	W0	W1	W2	H	D0	Δh	t
Tol.	±0.5	±1.0	±0.02	±1.0	±0.2	±0.7	±0.5	±0.5	Min	±0.5	Max	0.75 -0.5	±0.2	Max	±0.3
Item	4	7~9(+1)	0.5	12.7	12.7	4.6	2.2	18	11	9	1.5	18.5	4.1	1	0.3
		10(+1)	0.45				1.5								
	5	5(+1)	0.45	12.7	12.7	4.6	2.0	18	11	9	1.5	18.5	4.1	1	0.3
		6~9(+1)	0.5				2.5								
	5.5	7~11(+1)	0.5	12.7	12.7	4.6	2.5	18	11	9	1.5	18.5	4.1	1	0.3
	6.3	5~7(+1)	0.5	12.7	12.7	4.6	2.5	18	11	9	1.5	18.5	4.1	1	0.6
		8(+1)	0.6				3.5								
		9~13(+1)	0.5				5.0								
		15(+1.5)	0.6												
	8	8~14(+1)	0.6	12.7	12.7	4.6	3.5	18	12	9	1.5	18.5	4.1	1	0.6
		16~20(+1.5)					5.0								
	10	12.5~14(+1)	0.6	12.7	12.7	3.85	5.0	18	12	9	1.5	18.5	4.1	1	0.6
16~20(+1.5)															

Taping code	Taping size(F/mm)	Applicable case size(ΦD/mm)
TA	2.0	Φ5
TB	2.5	Φ5, Φ5.5, Φ6.3
TC	3.5	Φ6.3, Φ8
TD	5.0	Φ6.3, Φ8, Φ10
TR	Taping and Reel	